



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,533	10/23/2001	Paul Shala Henry	2001-0099B	1262

7590 03/17/2005

Samuel H. Dworetsky  
AT&T CORP.  
P.O. Box 4110  
Middletown, NJ 07748-4110

EXAMINER

PERUNGAVOOR, VENKATANARAY

ART UNIT	PAPER NUMBER
----------	--------------

2132

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/017,533

Applicant(s)

HENRY ET AL.

Examiner

Venkatanarayanan Perungavoor

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2/13/2002</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Specifications***

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: A MOBILE HOST USING A VIRTUAL SINGLE ACCOUNT CLIENT AND SERVER SYSTEM FOR NETWORK ACCESS AND MANAGEMENT

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because Figures are faded and are difficult to understand the written text and pictures(namely Figure 2-3D). Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

### ***Claim Rejections – 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an

Art Unit: 2132

application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claim 1,4-15 rejected under 35 U.S.C. 102(e) as being anticipated by U.S.

Patent 6,275,939 B1 to Garrison.

Regarding Claim 1,

A client for connecting a mobile host to a remote network through an access network with a single user password, where the access network may be independent of the remote network in terms of no protocol conversation between authentication servers in the access network and the remote network, respectively, and a virtual single account (VSA) has been set up for a user to connect to the access network and then to the remote network, the client comprising machine readable instructions stored in a memory medium, which when executed by a processor: generate a VSA password and decryption key from the single password received from the user;(Col 2 Line 64-Col 3 Line 2 & Col 3 Line 3-8 & Col 5 Line 61-65)  
decrypt at least one of a local access network authentication credential and a remote access authentication credential;(Col 2 Line 42-51 & Col 9 Line 34-36)  
initiate a local access network connection;(Figure 2 item 17a & Col 7 Line 50-57)  
and initiate a remote network access connection( Figure 2 item 17b & Col 9 line 40-45).

3. Regarding Claim 4, The “step of remote network authentication credential prior to initiating the access connection is authorized by an instruction for the mobile information update request message” is met by Garrison see Column 2 Line 64-Column 3 Line 2.

4. Regarding Claim 5, The “which when executed by the processor, select a local access network from a current VSA access record stored in the memory medium” is met by Garrison see Column 4 Line 13-23 & Column 5 Line 13-15.

Art Unit: 2132

5. Regarding Claim 6, The “generate the decryption key in response to a random sequence received from the user” is met by see Garrison see Column 6 Line 26-30.

6. Regarding Claim 7, The “VSA password = hash( VSA username || common password || VSA server || remote network ID) is met by Garrison see Column 5 Line 50-58.

7. Regarding Claim 8, The “request message  $Q = \text{VSA username} || X || E_{k1}(\text{Synchronization time} || \text{Request content})$ ” is met by Garrison see Column 8 Line 5-14.

8. Regarding Claim 9, The “information update response message  $A = \text{Response Code} || Y || E_{k2}(\text{Synchronization time} || \text{Response content})$  is met by Garrison see Column 8 Line 38-59.

9. Regarding Claim 10, The “select local access parameters and remote access parameters from a VSA access record stored in the memory medium” is met by Garrison see Column 5 Line 5-39.

10. Regarding Claim 11,

A system for connecting a mobile host to a remote network through an access network with a single password, where the access network may be independent of the remote network in terms of no protocol conversation between authentication servers in the access network and the remote network, respectively, and a virtual single account (VSA) has

Art Unit: 2132

been set up for a user to connect to the access network and then to the remote network, comprising:

a VSA server deployed in the remote network, the VSA server including machine readable instructions stored in a memory medium, which when executed by a processor:

send a VSA information update response message to the mobile host in response to receiving a VSA information update request message from the mobile host;(Column 2 Line 52-59)

verify an authentication credential for the remote network received from the mobile host;(Column 2 Line 64- Column 3 Line 2)

and authorize a remote gateway in the remote network to connect the mobile host to the remote network(Column 1 Line 60-65)

11. Claim 12 is rejected under the same rationale as Claim 8 and Claim 9 above.

12. Regarding Claim 13 , The "VSA server contains a plurality of VSA

management records, each management record including a user's VSA

authentication credential" is met by Garrison see Column 12 Line 35-54.

13. Regarding Claim 14, The "VSA server maintains access information for at

least one local access network and at least one remote network" is met by

Garrison see Column 12 Line 27-34.

14. Regarding Claim 15, The "the access information includes client information

for mobile hosts, and management information for at least one additional VSA

server is met by Garrison see Column 3 Line 9-17 & Figure 1 item 17b & Column

5 Line 5-39.

### ***Claim Rejections – 35 USC § 103***

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to

Art Unit: 2132

be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

16. Claim 2,3 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6275939 B1 to Garrison in view of U.S. Patent 6178511 B1 to Cohen et al.

17. Regarding Claim 2 and 3, Garrison does not disclose a VSA configuration update process with a server. However, Cohen et al. discloses an configuration update process with a server see Column 4 Line 48-60. Further Cohen et al. discloses the constructing, sending and receiving the VSA information update response message see Column 4 Line 35-60 & Column 6 Line 37-45. It would be obvious to one having ordinary skill in the art at the time of the invention to include an configuration update process in the invention of Garrison in order to help and coordinate future operations as taught in Cohen et al. see Column 5 Line 12-15.

### ***Conclusion***

18. The following patents are cited to further show the state of art in general:

U.S. Patent 6944824 to He

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkatanarayanan Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8-4:30.

Art Unit: 2132

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Venkatanarayanan Perungavoor  
Examiner  
Art Unit 2132

VP  
3/08/2005

  
GILBERTO BARRON JR.  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100